

TOSHIBA RECTIFIER MODULE SILICON DIFFUSED TYPE

30Q6P45, 30U6P45

THREE PHASE FULL WAVE BRIDGE APPLICATIONS

INVERTER EQUIPMENT FOR AC MOTOR CONTROL

CHOPPER EQUIPMENT FOR DC MOTOR CONTROL

DC SUPPLY FOR BATTERY

OTHER POWER CONVERSION EQUIPMENT

- Repetitive Peak Reverse Voltage : $V_{RRM}=1200、1600V$
- Average Output Rectified Current : $I_O=30A$
- Isolation Voltage : $V_{Isol}=2500V$ AC 60s
- Single In-line Package

MAXIMUM RATINGS ($T_a = 25^{\circ}C$)

| CHARACTERISTIC | | SYMBOL | RATING | UNIT |
|---|---------|------------|----------------|-------------|
| Repetitive Peak Reverse Voltage | 30Q6P45 | V_{RRM} | 1200 | V |
| | 30U6P45 | | 1600 | |
| Average Output Rectified Current | | I_O | 30 | A |
| Peak One Cycle Surge Forward Current (Non-Repetitive) | | I_{FSM} | 300 (50Hz) | A |
| | | | 330 (60Hz) | |
| Junction Temperature | | T_j | $-40 \sim 150$ | $^{\circ}C$ |
| Storage Temperature | | T_{stg} | $-40 \sim 125$ | $^{\circ}C$ |
| Screw Torque (Note 1) | | — | 1.5 | Nm |
| Isolation Voltage (AC, $t=60s$) | | V_{Isol} | 2500 | V |

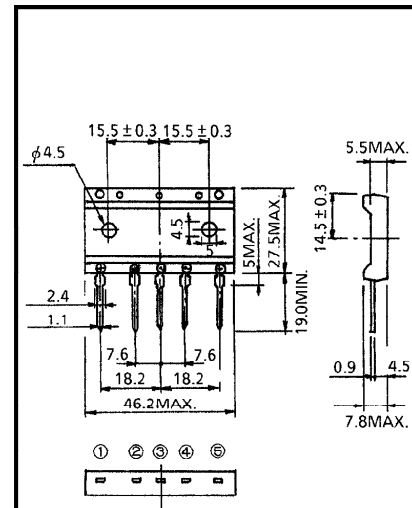
Note 1 : Recommended torque 1.2Nm

ELECTRICAL CHARACTERISTICS ($T_a = 25^{\circ}C$)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | MAX. | UNIT |
|---------------------------------|-----------------------|---------------------------------------|------|------|---------------|
| Repetitive Peak Reverse Current | I_{RRM} (Note 2) | $V_{RRM} = \text{Rated}$ | — | 100 | μA |
| Peak Forward Voltage | V_{FM} (Note 2) | $I_{FM} = 30A$ | — | 1.3 | V |
| Thermal Resistance | $R_{th(j-c)}$ | DC (Total) (Junction-Case) | — | 0.8 | $^{\circ}C/W$ |
| | $R_{th(j-a)}$ | Free Convection (Junction-Ambient) | — | 15 | |

Note 2 : A value per rectifier unit.

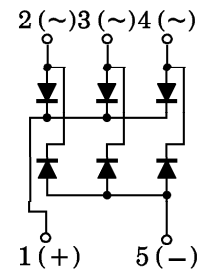
Unit in mm



| | |
|---------|----------|
| JEDEC | — |
| EIAJ | — |
| TOSHIBA | 12-46A1A |

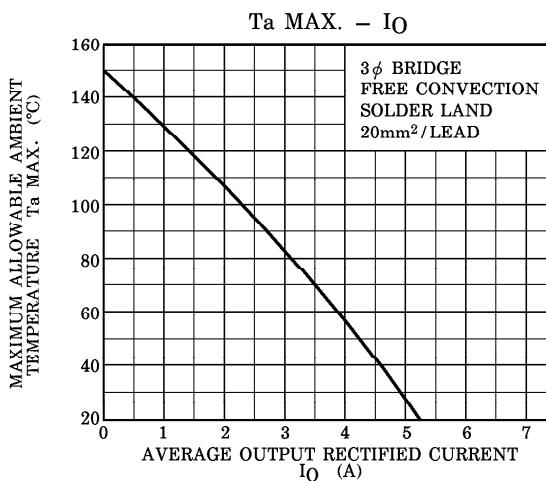
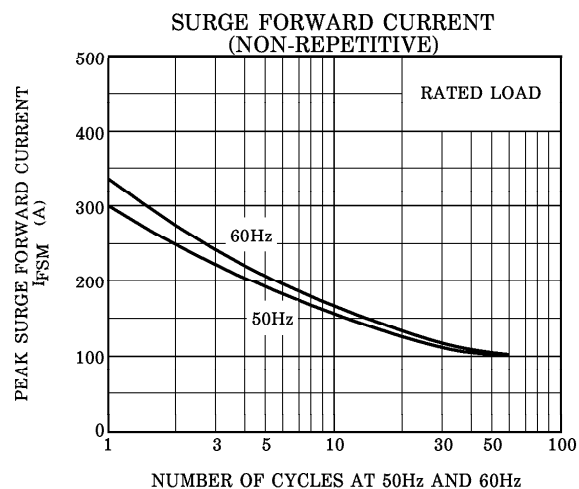
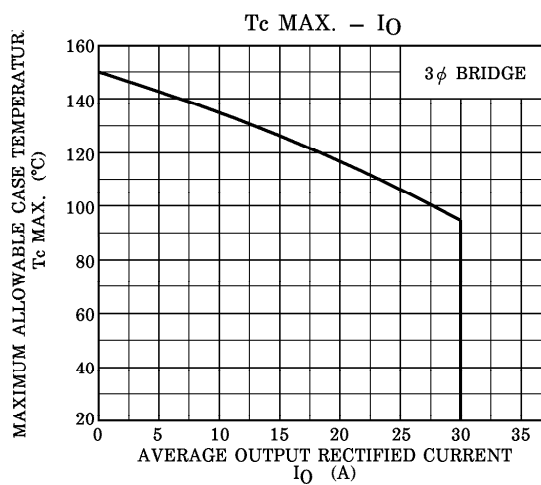
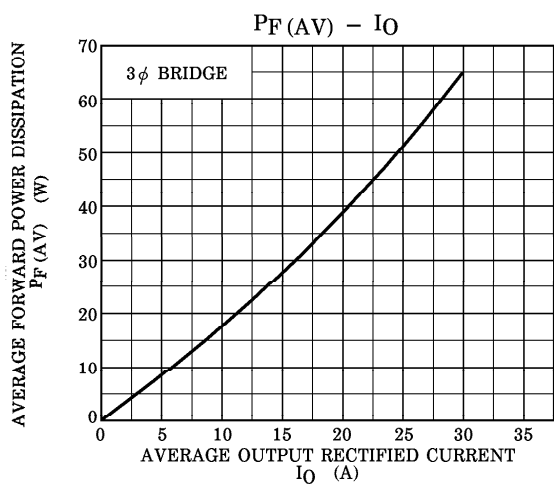
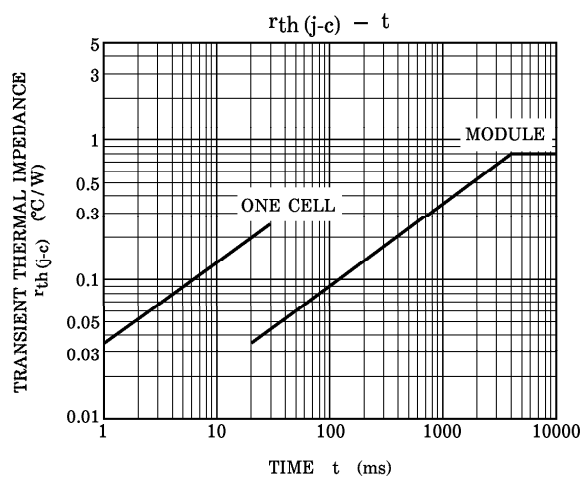
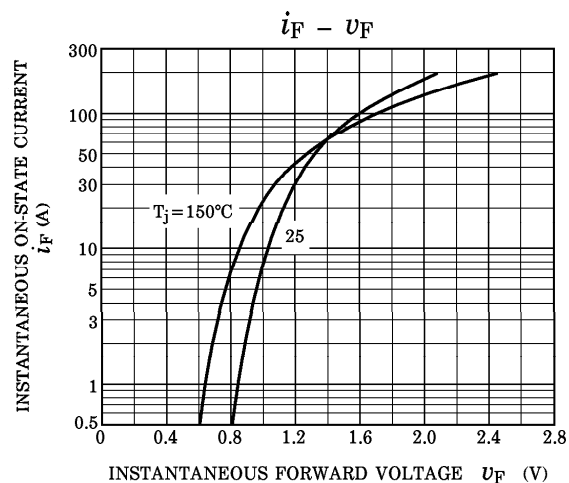
Weight : 24g

CONNECTION



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